

Fig. 10 is a diagrammatic block diagram in the form of a flow chart indicating the optical interaction of the parts of the chlorosome of Fig. 6;

Fig. 11 is a diagrammatic illustration, partly in section, of a hybrid photovoltaic device in accordance with the invention;

5 Fig. 12 is an enlarged fragmentary cross-sectional view along the line 12-12 of Fig. 11 and shows the chlorosomes like that of Fig. 6 adherent to a transparent plate;

Fig. 13a is a normal percentage probability plot and Fig. 13b is the interaction plot between temperature and percent volume for a design of experiments analysis where the output variable to be studied was the ratio R1 of absorbance at 740 nm to absorbance at 808 nm;

10 Fig. 14a is the normal percent probability plot and Fig. 14b the interaction plot between temperature and percent volume media to air for a design of experiments analysis where the output variable studied is the ratio R2 of absorbance at 740 nm to absorbance at 366 nm;

Fig. 15a is a plot of three replicates of a full spectra of *C. aurantiacus* at one dilution and Fig. 15b plots full spectra of absorbance of *C. aurantiacus* at multiple concentrations;

15 Fig. 16a is a plot of correlation between absorbance and cell count at 650 nm wavelength for *C. aurantiacus* and Fig. 16b is a plot of correlation between absorbance and cell count at 740 nm wavelength;

Fig. 17 is a plot of correlation between absorbance and number of RC<sup>-</sup> chlorosomes of *C. aurantiacus* at 650 nm wavelength and a zoomed-in-plot of the first four data points in that  
20 correlation showing close linearity between the two variables;

Fig. 18 is a plot of absorbance and emissions spectra of chlorosomes of *C. aurantiacus*;

Fig. 19 is a plot of percent enhancement of a SiPV for percent coverage by chlorosomes of *C. aurantiacus*;